

Appl. No. 10/660,315
Amdt. Dated July 2, 2004
Reply to Office Action of April 2, 2004

Listing of Claims:

Claim 1 (original): A cable end connector assembly for mating with a complementary, comprising:

- an insulative housing;
- a plurality of contacts received in the insulative housing;
- a cable comprising a plurality of conductors electrically connecting with corresponding contacts;
- a cover enclosing a rear end of the insulative housing; and
- a locking member comprising a retaining section secured with the cover, a main section extending forwardly from the retaining section, and a locking section extending forwardly from the main section and having a latch portion adapted for locking with the complementary connector, the insulative housing comprising a retention portion pre-stressing the locking section.

Claim 2 (original): The cable end connector assembly as claimed in claim 1, wherein the locking section is movable with the main section to deflect toward the cover and the insulative housing.

Claim 3 (original): The cable end connector assembly as claimed in claim 2, wherein the insulative housing defines a depression and the cover defines a recess communicating with the depression, the locking section and a front end of the main section are respectively deflected into the depression and the recess when the locking section is mating with the complementary connector.

Claim 4 (original): The cable end connector assembly as claimed in claim 3,

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wherein the insulative housing comprises another retention portion, each of the two retention portions having a stopper over the depression and pressing a side edge of the locking section.

Claim 5 (original): The cable end connector assembly as claimed in claim 1, wherein the cover defines a channel therein, and wherein the locking section comprises a resilient tab resiliently abutting against of the channel.

Claim 6 (original): The cable end connector assembly as claimed in claim 1, wherein the retaining section partially encloses a rear portion of the cover and comprises a main body and a pair of securing portions extending from opposite ends of the main body.

Claim 7 (original): The cable end connector assembly as claimed in claim 6, wherein the main section of the locking member comprises a connecting portion extending upwardly from the main body of the retaining section, and an inclined portion extending forwardly and downwardly from a top end of the connecting portion.

Claim 8 (original): The cable end connector assembly as claimed in claim 6, wherein the rear portion of the locking member comprises a connecting portion extending upwardly from the main body of the retaining section, and an inclined portion extending forwardly and downwardly from a top end of the connecting portion.

Claim 9 (original): The cable end connector assembly as claimed in claim 8,

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wherein the rear portion of the cover is formed with a pair of bars behind corresponding locking portions and protruding sidewardly, and wherein rear edges of the securing portions abut against corresponding bars.

Claim 10 (original): The cable end connector assembly as claimed in claim 6, wherein the rear portion of the cover is formed with an embossment on the side thereof, and wherein the main body of the retaining portion defines an aperture receiving the embossment.

Claim 11 (original): The cable end connector assembly as claimed in claim 1, wherein the main section is formed with a plurality of ribs thereon.

Claim 12 (original): The cable end connector assembly as claimed in claim 1, wherein the locking section of the locking member comprises a forwardly and downwardly extending guiding portion at a front end thereof.

Claim 13 (original): An electrical connector assembly comprising:
a cable end connector assembly comprising an insulative housing defining a receiving space, a plurality of contacts mounted in the insulative housing, a cable comprising a plurality of conductors electrically connecting with corresponding contacts, a cover enclosing a rear end of the insulative housing, and a locking member mounted on an upper side of the cover and the insulative housing, the locking member comprising a resilient tab extending therefrom and abutting against the upper side of the cover and the insulative housing and a latch portion extending upwardly therefrom, the locking member being deflectable toward the upper side of the cover and the insulative housing; and

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a complementary connector comprising a base portion, a tongue portion and a protect portion respectively extending forwardly from a middle and an upper portions of the base portion, and a plurality of terminals received in the tongue portion, the tongue portion being received in the receiving space of the cable end connector assembly with the terminals electrically connecting with the contacts of the cable end connector assembly, the protect portion defining an engaging opening receiving the latch portion of the locking member for providing a mechanical connection between the cable end connector assembly and the complementary connector.

Claim 14 (original): The electrical connector assembly as claimed in claim 13, wherein the complementary connector comprises a pair of arm portions extending from opposite ends of the base portion in a mating direction of the complementary connector, the arm portions connecting with the protect portion at upper ends thereof to define a mating space receiving a front end of the cable end connector assembly.

Claim 15 (original): An electrical connector assembly comprising:
a cable end connector including:
a first insulative housing with a plurality of first contacts therein;
a cable including a plurality of conductors connected to the corresponding first contacts, respectively;
a metallic locking member attached to the first housing with at least a fulcrum at a rear end, a latch portion at a front end and a main pressing section between said fulcrum and said latch portion;
an upper wall of the first housing defining a depression receiving the

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moveable locking member therein; and

a complementary connector adapted to be mounted to a printed circuit board and mate with the cable end connector, said complementary connector including:

a second insulative housing with a forward mating tongue;

a plurality of second contacts disposed in the second housing;

a protection portion spatially located above the mating tongue in a vertical direction with an engaging opening therein; wherein

when the cable end connector and the complementary connector are mated with each other, the first contacts and the second contacts are mechanically and electrically engaged with each other and the upper wall of the cable end connector is received between the mating tongue and the protection portion of the complementary connector under a condition that the latch portion of the locking member is latchably engaged in the engaging opening.

Claim 16 (original): The assembly as claimed in claim 15, wherein said engaging opening is exposed to an exterior along said vertical direction.